THE PROGRESSIVE FARMER, JANUARY 26, 1888.

IN THE FARMERS' ASSOCIA-COMMITTEE ON THE STATE | stock. DEPARTMENT OF AGRICUL-TURE.

"I conceive the object for which experimental work is desired, and the benefits that will be expected to accrue from it in the future to the masses | tion. of the people throughout the State is that material aid will be given in the constituents of the standard crops in advancement of the farming class and | the various stages of their growth-of in the advancement of agriculture as cotton, corn and tobacco; and the a profession. And the work to be growth of the roots of these crops as carried on should have for its object determined by root washing. whatever would best advance the agsuit the needs of those living in the throughout the State. various sections. The requirements of New Yorkers are not the requirements of North Carolinians, nor are my opinion, should be undertaken. the needs of the people of North Carolina the same as those of the people of cotton States, these needs in my opin-

or through information from any other | every horse and mule needed within source, if this cannot be done. This her borders, but should raise a surwork should include that which would | plus of at least ten thousand to supply prove the most practical, and give the other markets. most immediate relief as far as pos sible to the farming class.

ion can best best be fitted by an influ-

ence educating in its character-by

held by all of our people.

ready to digest them, be subordinate for draft horses and \$200.00 to to that more practical in character.

especially adapted to this State, will than part the expense of cultivation, better be understood.

be best to undertake, should be as I clings to us closer than a brother. have said—entirely practical in its character, and such as would give the small farmers—one year one raised most immediate and beneficial results | four hogs that netted him over eight for the use of our farmers, and should | hundred pounds. When asked what

1. The effect of fertilizers on various soils and crops, carried on in conjuncand climate as this State possesses, four or five weeks before killing." this is a necessity to obtain results of

2. The best system for the rotation | sell or could not be sold at all. of crops, and the effect of the time of planting of each.

lands to render them productive.

staple crops looking to the improvement in the present system.

5. The utilization of waste farm products in the manufacture of fertilizers and composts; and the examsame object.

6. Investigation as to the growth of cotton," will be blinded by a mortother crops than those now planted, gage sooner or later. to ascertain if more valuable crops

7. Experiments relative to the feeding value of the various forage crops our farmers in the value of the standvalue of each; and to determine from work, brood and fattening cattle, using of dollars at home. the recognized feeding standards to

that end. 8. The construction of the silo and the preservation of green forage crops

9. Digestion experiments with milk study it.

REMARKS OF DR. H. B. BATTLE cows, and the amount of milk obtained, with chemical analysis of same. TION ON THE REPORT OF THE | Also digestion experiments with other

> 10. A study of the temperature of the soil to ascertain how far it effects the growth of the crop.

11. Meteorological observations in conjunction with the various work carried on in other lines of investiga-

A few of these have been carried on ricultural class. The needs of various | during the past two years, and are States are widely different, and no now in progress. The list might be similar work can be conducted at once | largely increased, for the subject is an adapted to the requirements of all the immense one, and fruitful, with possi-States. The work must be varied to bilities for good in every section

> I have merely given these experiments as types of the work which, in

[For The Progressive Farmer. Maine. As a rule, especially in the CO-OPERATION IN STOCK RAIS-ING.

Annually, thousands of horses and teaching the people the knowledge mules are brought into North Carothey most lack in the proper conduct | lina for sale, and tens of thousands of of their farming operations. This can | dollars are taken from the pockets of be done by disseminating information our people to enrich the stock raisers obtained best by work in this State of other States. This should not be; (for here it will have the best effect) North Carolina should raise not only

The cost of raising a mule until three years old is about seventy dol-The opinion as given in the last sen- lars; of a draft horse one hundred tence is shared by a number of our dollars, and of a thorough-bred or representative farmers in various por- trotter one hundred and thirty dollars tions of the State with whom I have | This is not cash paid out, but it is the corresponded on the subject; and I value of things every farmer raises have every reason to believe that it is that he does not sell or finds it inconvenient to market. Besides, a horse It is not my idea for the purely or mule well raised is worth twentyscientific work which would not bring | five per cent. more than one that is quick returns to be excluded, but not. We are now paying \$140.00 to should at present, until the masses are | \$200.00 for mules, \$150.00 to \$250.00 \$450.00 for thoroughbreds and trot-With this preface the following ting horses. This is hard cash, raised plan for experimental work, more from crops that often have little more and not unfrequently it is cash raised The work, in my opinion, that would by a mortgage that forever after

I once knew two brothers—both they cost him, replied:

"Not much. Some corn in the winter; in spring, summer and fall tion with the experiment station by they were fed on slop and refuse from individual farmers throughout the the garden, faulty fruit, cut clover, State. With such a diversity of soil grass and weeds, and some corn for

> Observe, this meat was produced on such things-as it was inconvenient to

The other brother raised no hogs, and it required over eighty dollars of 3. The best treatment of worn-out hard, cold cash to supply him with meat; and the labor expended by him 4. A study of the cultivation of the in raising the cash must have been fourfold greater than the one who raised the hogs.

The same ratio will hold good in horse raising or mule raising. It is the attention paid to utilizing everyination of natural products for the thing on the farm that makes it pay. He whose eyes can only see "bales of

Many farmers would raise horses or might bee substituted in part or in mules if stallions or jacks were conwhole for those we now have. Such | venient to them. These animals cost investigation might include among large sums, and but few of our farmothers the study of sorghum as to the ers are able to buy them. If the Allibest practical plan for planting, gath- ance members would form live stock ering, expressing and utilizing the associations, we could have numbers juice; the growth of root crops; the of them in every county where it is growth of plants yielding fibre, such desirable to raise horses or mules. A interest is not usurious, we advise our as ramie, jute and the best plan for jack costs from \$500.00 to \$800.00. farmers to make a law unto themsel- key stone in the grand arch of univer- prepared himself with proper houses preserving the fibre; a study of the In two or three neighboring Alliances various grasses of value; to ascertain there are fifty men who desire to how far the raising of hay can super- raise mules; who have one mare each sede the planting of cotton and other by each paying \$10.00 in advance, staple crops so exhausting to the soil. they could buy the jack for \$500.00, and after the first year the only cost would be the feed and attention of grown in this locality, also of the the jack, which would be very small. grasses now grown or proposed to be divided out among the owners. On grown in this State, and to instruct the same plan, making the shares in number according to the number of ard hays and grasses, of the nutritive mares each man desires to breed, draft, trotting or thoroughbred stallions can the analysis of the plants grown in be introduced and an impetus given this latitude the proper ration for to stock raising that will keep millions

> S. B. ALEXANDER. Enderly Farm, Jan. 18.

Read the article of Capt. S. B. Alexas ensilage, and the comparative ander on "Co-operation in Stock-Raismerits of the latter with forage in the ing." It is full of sound, practical thought and will well repay you to of their payments to lapse, until now upon the farmers of that section .-

AWARD OF FIELD CROP PRE-MIUMS.

By the Executive Committee of the North Carolina Agricultural Society on Crops of 1887.

COTTON.

No. 1. Largest yield of cotton per acre, on five acres, \$40.00; awarded to I. C. Williams, Esq., Winslow, 12. Investigation of the chemical Harnett county, for 3,359 pounds of lint cotton.

> No. 2. Largest yield of cotton on one acre, \$20.00; to I. C. Williams, Esq., Wilslow, Harnett county, for 1,045 pounds lint.

> No. 4. Largest yield on one acre where Raleigh Standard guano is used, \$50.00. This premium was donated by the Raleigh Oil Mill and Fertilizer Company, and was awarded to J. W. Jones, Forestville, for 926 pounds lint.

> No. 5. Next largest yield on one acre where Raleigh Standard guano is used, \$35.00; donated by the Raleigh Oil Mill and Fertilizer Company, and given to J. W. Holloway, Raleigh.

No. 6. Largest yield upon five acres, where Diamond State Super Phosphate is used, \$75.00; donated by the Diamond State Super Phosphate Company, and awarded to T. J. King, Louisburg, for 8,476 pounds seed cot-

No. 8. Largest yield on one acre, where Diamond State Super Phosphate is used, \$40,00; donated by the same company, and awarded to I. C. Williams, Winslow, Harnett county, for 657 pounds lint.

TORACCO.

from one acre where Diamond State Super Phosphate is used, \$75.00; donated by the Diamond State Super Phosphate Company and awarded to H. B. Bagwell, Esq., Garners, for yield of 1,478 pounds.

CORN, WHEAT, OATS, ETC.

No. 27. Largest yield of corn from five acres, \$40.00; to L. Banks Holt Esq., Graham, for an average of 56 1-16 bushels of shelled corn per acre.

No. 30. Largest yield of corn made upon one acre of land, where Raleigh Standard guano is used, \$50.00 in gold, donated by the Raleigh Oil Mill and Fertilizer Company, and awarded to H. B. Bagwell, Esq., Garners, for 76 bushels on one acre.

No. 32. Largest yield of wheat from five acres, \$40.00; to L. Banks Holt, Esq., Graham, for an average of 24 bushels per acre.

No. 34. Largest yield of oats from five acres, \$40.00; to J. E. Wilfong, Esq., Hickory, for an average of 65 1-13 bushels per acre, (the area planted was 13 acres, and total yield 849 bushels).

No. 49. Largest yield of ground peas from one acre, \$15.00; to W. A. Berrier, Lexington, N. C., for yield of 185 bushels.

No. 57. Largest yield of either orchard grass, herd's grass, timothy or clover hay, or any of above mixed on one acre, \$30.00; to L. Banks Holt, Esq., Graham, (10,582) ten thousand five hundred and eighty-two pounds, total mowings during season, from one acre.

KEEP OUT THEIR CLUTCHES

The mortgage system among our farmers is no less a bane to them than is absenteeism the bane of Ireland. That absenteeism among the holders of claims against our farmers may cause trouble is not entirely out of the question the following remarks from the Wilmington Messenger on an Atlanta, Ga., dispatch will prove, and as there is no law to prevent foreign syndicates investing their money in Southern mortgages when the rate of ves and keep outside the clutches of sal prosperity.—It is the invariable such syndicates as are alluded to:

"An Atlanta, Ga., dispatch in a New York contemporary makes cer tain statements which may be exaggerated but which, nevertheless demand consideration. In Georgia, for instance, many of the finest farm lands are heavily mortgaged, and the syndicates which hold the mortgages are mainly composed of English and Scotch capitalists. The rate of interest charged is twelve per cent. per annum, and the syndicates are increasing in number. Capital to be invested in such mortages is being poured into the State although the District United County Farmers' Association. Such breeder of fine fowls most largely cir-States Court has decided such a rate an organization has been formed in of interest to be usurious, and has declared the loans forfeited. The host | home) and we can honestly certify to of land owners who have borrowed at the valuable interest it has engendered this enormous rate have allowed many it is utterly impossible for them to Reidsville Times.

meet the obligations they have incurred. The consequence is that unless the United States Court is sustained by the Supreme Court, many Georgia farms will go into the hands of the mortgagees. Including Georgia and some of the Southwestern States, more than two hundred million dollars is held in mortgages by this foreign syndicate.

"There is much to cause alarm in this statement, as well as in the other fact that, contrary to the intention of the government, some of the public lands have been acquired by foreigners. A bill pending in Congress will doubtless become law and will remedy the latter evil. But there is no law to prevent foreign syndicates from investing their money in Southern mortgages when the rate of interest is not usurious. And as money invested in England and Scotland does not, as a general thing, bring even legal interest in this country, there is every inducement for the foreign syndicates to continue their investments in the South. Now, we should be glad to welcome such capital to our midst in all legitimate enterprises. But usurious interest and the probability of absenteeism is a little too much for us."—Daily Hornet.

AGRICULTURAL LITERATURE.

One who regularly reads the agri-

cultural papers, attends agricultural meetings and discussions, and keeps well informed on the issues of the agricultural press, but who does not mingle much with farmers in their homes, will be apt to have a higher idea of agricultural progress than the No. 17. Largest yield of tobacco facts warrant. A catalogue of agricultural papers and books looks formidable, and considered in connection with the multiplicity of fairs and cattale shows over the country would seem to indicate that the high tide of agricultural progress had been reached. But a little observation about the homes of many well-to-do farmers dispels this illusion. The general management shows a clear advance over that of thirty or forty years ago. And yet very little, after all, to compare with the vast advance of the country in business methods and developments during that time. Machinery, as shown before, has been forced on the farmer, and in social culture there has been a gain; but as to farm methods not brought by machinery there is a great deal of stagnation, indifference and routine. One would rather expect to see agricultural papers, or some of the great weeklies with agricultural departments, in almost every family making pretensions to social standing, but, on the contrary, they are the exception rather than the rule. I do not believe that such papers are yet taken by one-quarter of the farmers of the country, and even in many cases where they are taken they seem to exert little or no influence; while as to agricultural libraries—that is, books collected and preserved for reference, such as physicians, lawyers, clergymen, editors, architects, &c., collect about them, it is doubtful if each town averages more than one or two. The influences that surround men are often very subtle, and no doubt our agricultural literature does influence thousands in unconscious ways, even in cases where outwardly men ob stinately set themselves against it. The improved farming of one man among a dozen or two does its "fine work" in time and the paper which has only the boys for readers instead of the master of the house is silently instilling them with inquiring ideas, which bear fruit when their turn comes as landowners. Hence there is no reason to lessen effort in this direction, but rather to increase it.—The Practical Farmer.

door way to everything that is substantial and profitable in the business relations of the great world. The very important obligation imposed upon us by the indispensable industry of the farmers, deserves the favor of immediate and kindly consideration. There they will be worth no more to him is no success in any department of work outside of a considerate recogni tion of our close relationship with and entire dependence upon this worthy class of laborers. As the best stimulus to agricultural enterprise and development, we would humbly recommend the formation of a Rockingham the county of Wayne (the editor's and the great benefit it has bestowed the breeder of fine fowls.

POULTRY DEPARTMENT.

(We are pleased to announce to the readers of THE PROGRESSIVE FARMER that we have been fortunate as to secure the efficient services of Mr. H. Weathers as Editor of this Department, one of the best informed men on this subject in questions designed for his Department be address "Poultry Column, Progressive Farmen, Rales N. C." He will most cheerfully answer all quations relating to poultry through this column Write him —Editor Progressive Farmen.

The Road to Success.

Unfortunately, a great many anthors and writers on poultry breeding lay down a system or certain rules for the beginner to be governed by and in many instances make it appear especially in the matter of feeding - a laborious task; such in fact that but few could or would be willing to follow. The fact is, there can be no in. variable rule of action laid down to insure success, as there are so many contingencies occurring with those who attempt to breed poultry, that a course of action that will answer the purposes and surroundings of one person, will not do for another. Good blood of itself will not insure good progeny. A certain amount of intelligence and good judgment is requisite to know when and how to act, and in connection with that there must be industry.

In many instances fowls will get out of condition, fail to eat properly. or perhaps what they do eat does not nourish them and make them grow and look thrifty. In such instances it is not necessary to go to work and renovate the whole yards, or to dose them with half dozen medicines hoping to hit the right one to rectify the trouble, but by a clear insight to their real wants and true chicken sense the remedy is simple and easily applied. and yet the most experienced poultry breeder of the country could not answer the inquiry from such an one what to do, simply because the surroundings of no two poultry men are alike.

The only way out of such difficulties is to study and learn the nature of the fowls, watch their movements, the character of food they seek when at liberty, as instinct is unerring in directing the lower creation to that which is best for them when well and when ailing. Reason may and will err in forming conclusions for action. but instinct is unfailing, and to watch and study that in a flock of poultry is the best education the poultry breeder can have. From it he not only learns what and how best to feed them, but much can be gained in treatment of them when out of health. It does not require much labor to attend to poultry properly, but a thing that is necessary to be done today must not be put off until tomorrow, or perhaps it will be too late to have the desired effect. Constant care and attention is absolutely necessary, and there is no branch of industry that shows the effect of neglect sooner than a yard of poultry. and but few that proper care and attention will give better results than the same.

There are successful and unsuccessful lawyers, doctors, merchants and merchanics, and more of the latter than the former, and such is the case with the poultry breeders. They must be suited to the business: must possess a natural faculty for discerning and really anticipating the wants of the feathered family, and withal have a love for them, not simply a spasmodic fancy, brought about by a fine display of fine fowls in the hands of a neighbor. The beginner should learn to know himself in that respect. before going extensively into the business; and for that reason it is best to begin with but few varieties, and those most easily handled, and when he finds he is adapted to the business. and has been successful with those in hand, he may with propriety secure Agricultural progress is always the other varieties, but not until he has and yards for their accommodation.

Again, it is necessary for a breeder to possess some business tact in order to make it a success pecuniarly. He may be able to breed the best stock and have hundreds of good fowls. If that fact is not known and believed. than common poultry.

Judicious advertising is the next important factor, and there is as much to learn in that respect to secure profits from good breeding as any other matter connected with the busi ness. The poultry journals, of course. are the channels through which the culated in sections where he may reasonably expect to get patrons. all these things properly considered and acted upon will insure success to

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